



PTO/SB/08a (11-08)

Approved for use through 12/31/2008. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 10

## Complete if Known

Application Number	09/863,704
Filing Date	5-23-01
First Named Inventor	ARUNACHALM
Art Unit	2155
Examiner Name	H. PHILLIPS
Attorney Docket Number	

## U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 6473740	10-27-01	COLKRILL et al	
		US- 6490567	12-3-02	GREGORY	
		US- 6574607	6-3-03	CARTER et al	
		US- 6678664	1-13-04	GANESAN	
		US- 6714962	3-30-04	HELLAND	
		US- 6856974	2-15-05	GANESAN et al	
		US- 6948063	9-20-05	GANESAN et al	
		US- 7080051	7-18-06	CRAWFORD	
		US- 7120602	10-10-06	KITCHEN et al	
		US- 7175074	2-13-07	MEJIAS et al	
		US- 7213003	5-1-07	KIGHT et al	
		US- 7251656	7-31-07	KEOWN et al	
		US- 7302408	11-27-07	ENGSTADT et al	
		US- 7330831	2-12-08	BIGNOI et al	
		US- 7366696	4-29-08	GANESAN et al	
		US- 7383226	6-3-08	KIGHT et al	
		US- 7392223	6-24-08	GANESAN et al	
		US- 7395319	7-1-08	HARRIS et al	
		US- 8475819			DUP

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
Signature

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 10**Complete if Known**

Application Number	09/863,704
Filing Date	5-23-01
First Named Inventor	ARUNACHALM
Art Unit	2155
Examiner Name	H. PHILLIPS
Attorney Docket Number	

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US 5,475,819	12-12-1995	MILLER et al	
		US 5,859,978	1-12-1999	SONDEREGGER et al	
		US 5,404,523	4-4-1995	DELLA FERRA	
		US 5,708,780	1-13-1998	LEVERGOOD et al	
		US 5,715,214	2-3-1998	PAYNE et al	
		US 6,249,291	6-19-2001	POPP et al	
		US 6,125,352	9-26-2000	FRANKLIN et al	
		US 5,347,632	9-13-1994	FIKEPP et al	
		US 5,870,724	2-9-1999	LAWLOR	
		US 6,092,053	7-18-2000	BOESCH et al	
		<del>US 5,475,819</del>	<del>12-12-1995</del>	<del>MILLER et al</del>	<del>— Dup</del>
		US 5,432,937	7-11-95	TEVANI et al	
		US 5,873,093	2-16-99	WILLIAMSON et al	
		US 5,826,085	10-20-98	BENNETT et al	
		US 5,664,111	9-2-97	NAHAN et al	
		US 5,892,821	4-6-99	TURNER	
		US 5,574,939	5-19-98	HERZ et al	
		US 5,745,681	4-28-98	LEVINE et al	
		US 5,742,762	4-21-98	SHOLL et al	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.**

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

Sheet	3	of	70
-------	---	----	----

**Complete if Known**

Application Number	09/863,704
Filing Date	5-23-01
First Named Inventor	ARUNACHALAM
Art Unit	2/55
Examiner Name	H. PHILLIPS
Attorney Docket Number	

## U. S. PATENT DOCUMENTS

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-5604905	2-18-97	TEVANYAN et al	
		US- <del>5702780</del>		<del>LEVER</del>	DUP
		US-5492771	8-15-95	FILEPP et al	
		US-5491800	2-13-96	GOLDSMITH et al	
		US-5757917	5-26-98	ROSE et al	
		US-5239662	8-24-93	DANIELSON et al	
		US-5613148	3-18-97	BEZVIMER et al	
		US-5557780	9-17-96	EDWARDS et al	
		US-5444192	8-22-95	SHETYE et al	
		US-5519868	5-21-96	ALIEN et al	
		US- <del>5577</del>	<del>11-19-96</del>	<del></del>	
		US-5577251	11-19-96	HAMILTON et al	
		US-5828666	10-27-98	FOCSANEANU et al	
		US-5329589	7-12-94	FRASER et al	
		US-5715444	2-3-98	DANISH et al	
		US-5878191	3-2-99	DALY et al	
		US-5710887	1-20-98	CHELLIN et al	
		US-5285383	2-8-94	LINDSEY et al	
		US-5671279	9-23-97	ELGAYAK	

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 4 of 10**Complete if Known**

Application Number	09/863,704
Filing Date	5-23-01
First Named Inventor	ARUNACHALAM
Art Unit	2155
Examiner Name	H. PHILLIPS
Attorney Docket Number	

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-5537464	7-16-96	LEWIS et al	
		US-5873093	2-16-99	WILLIAMSON et al	
		US-5446896	8-29-95	HEGARTY et al	
		US-5148474	9-15-92	HARALAMBOPOLLOS et al.	
		US-4829372	5-9-89	MCCALLIE et al	
		US-5706442	1-6-98	ANDERSON et al	
		US-5960411	9-28-99	HARTMAN et al	
		US-5539909	7-23-96	TANAKA et al	
		US-5758327	5-26-98	CARDNER et al	
		US-5231566	7-27-93	BLUTINGER et al	
		US-4984155	1-8-91	GEIER et al	
		US-5845265	12-1-98	WOOLSTON	
		US-5910987	6-8-99	GINTER et al	
		US-5794234	8-11-98	CHURCH et al	
		US-5517645	5-14-96	STUTZ et al	
		US-5297249	3-22-94	BERNSTEIN et al	
		US-5724424	3-3-98	GILFORD	
		US-5452433	9-19-95	N. HART et al	
		US-5455903	10-3-95	JOLISSANT et al	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Complete if Known**

**(Use as many sheets as necessary)**

Sheet

5

of

10

Application Number

09/863,704

Filing Date

5-23-01

First Named Inventor

ARUNACHALAM

## Art Unit

2455

**Examiner Name**

H. PHILLIPS

Attorney Docket Number

---

Examiner Initials*	Cite No.1	U. S. PATENT DOCUMENTS			Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	
		Number-Kind Code <sup>2</sup> (if known)			
		US- 5428792	6-27-95	CANNER et al	
		US- 5677708	10-14-97	MATTHEWS III	
		US- 5809483	9-15-98	BROKA et al	
		US- 5890137	3-30-99	KOREEDA	
		US- 5592378	1-7-97	CAMERON et al	
		US- 4851988	7-25-89	TROTTER et al	
		US- 5329619	7-12-94	PAGE et al	
		US- 5383113	1-7-95	KIGHT et al	
		US- 5414812	5-9-95	FLIP et al	
		US- 5434974	7-18-95	LOUCKS et al	
		US- 5742768	4-21-98	GENNARD	
		US- 5758072	5-26-98	FILEPP et al	
		US- 5780780	7-14-98	AHMED	
		US- 5812779	9-22-98	CISCO et al	
		US- 5859978	1-12-99	SONDERREGER et al	
		US- 5870473	2-9-99	BOESCH et al	
		US- 5873072	2-16-99	KIGHT et al	
		US- 5848403	3-2-99	DEFRANCESCO et al	
		US- 5889957	3-30-99	RATNER et al	

[illegible]

**Examiner  
Signature**

Date: \_\_\_\_\_

**Considered**

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 6 of 10**Complete if Known**

Application Number	09/863,704
Filing Date	5-23-01
First Named Inventor	ARUNACHALAM
Art Unit	2155
Examiner Name	H. PHILLIPS
Attorney Docket Number	

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-5895454	4-20-99	HARRINGTON	
		US-5901228	5-4-99	CRAWFORD	
		US-5931967	8-2-99	SHIMIZU et al	
		US-5946509	9-21-99	KENNER	
		US-6003085	12-14-99	RATNER et al	
		US-6014666	1-11-00	HELLAND et al	
		US-6049819	4-11-00	BUCKLE et al	
		US-6055567	4-25-00	GANEVAN et al	
		US-6092053	7-18-00	BOESCH et al	
		US-6094673	7-25-00	DILIP et al	
		US-6101527	8-8-00	LEJEUNE et al	
		US-6125352	9-26-00	FRANKLIN et al	
		US-6134594	10-17-00	HELLAND et al	
		US-6192250	2-20-00	BUSKENS et al	
		US-6295522	9-25-01	BOESCH	
		US-6327577	12-4-01	GARRISON et al	
		US-6334116	12-25-01	GANEVAN et al	
		US-6363362	4-26-02	BURFIELD et al	
		US-6453426	9-17-02	GAMACHE et al	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 7 of 10**Complete if Known**

Application Number	09/863,704
Filing Date	5-23-01
First Named Inventor	ARUNACHALAM
Art Unit	2155
Examiner Name	H. PHILLIPS
Attorney Docket Number	

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 6473791	10-29-02	AL-GHOLEIN et al	
		US- 6553427	4-22-03	CHANG et al	
		US- 6625581	9-23-03	PERKOWSKI	
		US- 6678696	1-13-04	HELLAND et al	
		US- 6850996	2-1-05	WAGNER	
		US- 6932268	8-23-05	MCCOY et al	
		US- 7076784	7-11-06	RUSSELL et al	
		US- 7107244	9-12-06	KIGHT et al	
		US- 7146338	12-5-06	KIGHT et al	
		US- 7177846	2-13-07	MOENICKHAM et al	
		US- 7240031	7-3-07	KIGHT et al	
		US- 7296004	11-13-07	GARRISON et al	
		US- 7302411	11-27-07	GANESAN et al	
		US- 7334128	2-19-08	GANESAN et al	
		US- 7366697	4-29-08	KITCHEN et al	
		US- 7389514	6-17-08	RUSSELL et al	
		US- 7395243	7-1-08	TELEKE et al	
		US- 5125091	6-23-92	STAAS et al	
		US- 5239662	8-24-93	DANIELSON et al	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

Sheet	8	of	70
-------	---	----	----

**Complete if Known**

Application Number	09 / 863,704
Filing Date	5-23-01
First Named Inventor	ARUNACHALAM
Art Unit	2155
Examiner Name	H. PHILLIPS
Attorney Docket Number	

## U. S. PATENT DOCUMENTS

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-5408619	4-18-95	ORAN	
		US-5428792	6-27-95	CONNER et al	
		US-5440744	8-8-95	JACOBSON et al	
		US-5442791	8-15-95	WRABETZ et al	
		US-5475819	12-12-96	MULLER et al	
		US-5537467	7-16-96	LEWIS et al	
		US-5560005	9-24-96	HOOVER et al	
		US-5712913	1-27-98	CHAUM	
		US-5757917	5-26-98	ROSE et al	
		US-5771354	6-23-98	CRAWFORD	
		US-5781631	7-14-98	CHAUM	
		US-5826241	10-20-98	STEIN et al	
		US-5856974	1-5-99	GERVAIS et al	
		US-5864866	1-26-99	HENCKEL et al	
		US-5878140	3-2-99	CHAUM	
		US-5884301	3-16-99	TAKANO	
		US-5890161	3-30-99	HELLAND et al	
		US-5893076	4-6-99	HAFNER et al	
		US-5897621	4-27-99	BOESCH et al	

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

Date	
Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Complete if Known**

**(Use as many sheets as necessary)**

Sheet

9

Q

10

Application Number

09/863,704

Filing Date

5-23-01

First Named Inventor

ARUNACHALAM

## Art Unit

2/55

**Examiner Name**

P.H. 1111A

Attorney Docket Number

7-1-55

## U. S. PATENT DOCUMENTS

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. 1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-5969492	6-1-99	PAYNE et al	
		US-5913061	6-15-99	GUPTA et al	
		US-5956400	9-21-99	CHAUW et al	
		US-5958004	9-28-99	HELLAND et al	
		US-6014651	1-11-00	CRAWFORD <del>et al</del>	
		US-6049785	4-11-00	GIFFORD	
		US-6055514	4-25-00	WREN	
		US-6073237	6-6-00	ELLISON	
		US-6101482	8-8-00	DI ANGELO et al	
		US-6125185	9-26-00	BOESCH	
		US-6128315	10-3-00	TAKEUCHI	
		US-6185609	2-6-01	RANGARAJAN et al	
		US-6205433	3-26-01	BOESCH et al	
		US-6212634	4-3-01	GEER et al	
		US-6289322	9-11-01	KITCHEN et al	
		US-6301601	10-9-01	HELLAND et al	
		US-6327579	10-4-01	CRAWFORD	
		US-6360262	3-19-02	GUENTHER et al	
		US-6411943	6-25-02	CRAWFORD	

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not supported. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.**

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Complete if Known**

**(Use as many sheets as necessary)**

Sheet	10	of	10
-------	----	----	----

Application Number	09/863,704
Filing Date	5-23-01
First Named Inventor	ARUNACHALAM
Art Unit	2155
Examiner Name	H. PHILLIPS
Attorney Docket Number	

[illegible][illegible]

**Examiner  
Signature**

Date	
Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

*If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.*